Feiyu "Gavin" Zhu

+1 412-608-4566 | feiyuz@andrew.cmu.edu | zfy0314.github.io | Pittsburgh, PA, USA

EDUCATION

Carnegie Mellon University Robotics Institute   Aug. 2024 – May 2028
Ph.D. in Robotics   (QPA 4.06/4.0)   *Pittsburgh, PA, USA*
  Focus: Human-AI Interaction, Neuro-Symbolic AI, LLM Agents
  Advisors: Reid Simmons, Jean Oh

Carnegie Mellon University School of Computer Science   Aug. 2020 – May 2024
B.S. in Artificial Intelligence with an additional major in Cognitive Science   (QPA 4.0/4.0)   *Pittsburgh, PA, USA*
  Thesis: Incorporating Instructive Feedback in Human-AI Interaction
  Advisor: Reid Simmons

EXPERIENCE

Academic Collaborator / Research Advisor I (Part-Time)   Sept. 2025 – Dec. 2025
Magnit @ Meta   *Remote*
  • Closed-Loop Structured Policy Generation with LLM-Guided Semantic Reasoning for Embodied Agents

PUBLICATIONS

Interactive Policy Restructuring and Training   (acceptance rate 23.2%)
in *ACM/IEEE International Conference on Human-Robot Interaction (HRI) 2026*
Feiyu Gavin Zhu, Jean Oh, Reid Simmons

Sample-Efficient Behavior Cloning Using General Domain Knowledge   (acceptance rate 19.3%)
in *International Joint Conference on Artificial Intelligence (IJCAI) 2025*
Feiyu Zhu, Jean Oh, Reid Simmons

Bootstrapping Cognitive Agents with a Large Language Model   (acceptance rate 23.75%)
in *The AAAI Conference on Artificial Intelligence 2024* **(Oral)**
Feiyu Zhu, Reid Simmons

SQE: Self Quality Evaluation Metric for Parameters Optimization in Multi-Object Tracking   (acceptance rate 25.01%)
in *CVF/IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2020*
Yanru Huang, **Feiyu Zhu**, Zheni Zeng, Xi Qiu, Yuan Shen, Jianan Wu

INVITED TALKS

SoftBank Group Research Talk, *Incorporating General Knowledge with Specific Demonstrations*   Sept. 2025
DDMLab at CMU, *Bootstrapping Cognitive Agents with a Large Language Model*   Mar. 2025

HONORS AND AWARDS

SoftBank Group–Arm Fellowship, *SoftBank Group Corp.*   Aug. 2025
Member, *The Phi Beta Kappa Society*   Apr. 2024
Honorable Mention, *CRA Outstanding Undergraduate Research Awards*   Jan. 2024
Summer Undergraduate Research Fellowship, *Carnegie Mellon University ($4500)*   Jun. 2023
Member, *Mortar Board*   Apr. 2023
Member, *Psi Chi, The International Honor Society in Psychology*   Jan. 2023
Summer@EPFL Research Fellowship, *École Polytechnique Fédérale de Lausanne (EPFL) (5400CHF)*   Aug. 2022
ThinkSwiss Research Scholarship, *Embassy of Switzerland in Washington, D.C.*   Feb. 2022
Dean's List, High Honors, *School of Computer Science, Carnegie Mellon University*   All semesters

TEACHING EXPERIENCE

Teaching Assistant   Aug 2022 – Dec. 2024
CMU 15-281 Artificial Intelligence: Representation and Problem Solving   *Pittsburgh, PA, USA*
  • Head TA (led a team of 9 TAs) for Fall 2023

Teaching Assistant   Jan. 2022 – Mar. 2024
CMU 07-180 Concepts in Artificial Intelligence   *Pittsburgh, PA, USA*
  • Head TA (led a team of 10 TAs) for Spring 2023, Spring 2024

Mentoring

Reya Shukla, *CMU Undergrad*	Feb 2026 - Present
James Tcheng, *CMU Undergrad*	Sept 2025 - Present
Yiyu "Romy" Chen, *CMU Undergrad*	Sept 2025 - Present
Justin Ma, *CMU Undergrad*	May 2025 - Sept 2025
Shridula Srinivasan, *CMU Undergrad*	May 2025 - Aug 2025

Service

Reviewer:
HRI (2026), AAAI (2026), International Journal of Social Robotics (2025)
Outreach:
Pathway to AI Research (PAIR) at CMU (2024)
CMU Graduate Application Support Program (2025)
Volunteering:
Conference volunteer at IJCAI (2025)

Skills

Programming: Python, C, Pytorch, huggingface, scikit-learn, NumPy, lightgbm, ACT-R
Other Tools: LaTeX, Unix, Vim, Git, Docker
Languages: Chinese, English

References

Prof. Reid Simmons, *Carnegie Mellon University*	Research advisor
Prof. Jean Oh, *Carnegie Mellon University*	Research advisor
Prof. Yonatan Bisk, *Carnegie Mellon University*	Research advisor